

TELEGRAPHING WITHOUT WIRES. by means of electric waves. I am be-Hertzian Waves Are to Be Made to Do the Work.

To girdle the earth with telegraphy without the use of telegraph wires has been the dream of many an electrical inventor. As yet wireless telegraphy is in its infancy that will grow, however, and one day in the coming century the infant may become a giant that will bowl the world down the ringing grooves of change.

The latest scientist to plunge into the of telegraphy without wires, which depends not on electro magnetic but on electrostatic effects. That is to say, the new system is based on Hertzian waves, which have a vi-

cently discussed in Grit. These Hertzian waves are to electricity what the X rays are to visual important selections from the sign lanperception; but unlike the X ray, they hold of one end and shake into waves on Wheels," by the Rev. J. Howard of an electric stream so infinitesimally Swinstead, an English clergyman, who, small and keen that it would take the after many years and much diplomacy, ear of a fairy to hear that magnetic has ingratiated himself with a few surf beating on the shares of cloud-

coming more convinced every day that such communication can be based upon scientific principles which can be con trolled at will."

THE TRAMP; HIS MARK.

How He Aids His Brother's Weary Footsteps Along Life's Pathway. The tramp who is a properly initiated member of his vast and ancient fraternity has a secret written language in which he can communicate with any sea of wireless telegraphy is a young of his brethren who may come along man named Marconi, who has recently after him. This language, says the New York Journal, belong the gypsies. It is of an unfathomable antiquity. It is modified to suit the exigencies of various countries, and in America has undergone great developbration of not less than 250,000,000 a ments. In England and America it is second. His theory, and some success- to a considerable extent identical, but ful experiments he conducted, were re- this country may affirm with pride that its tramp can express a greater variety of meaning in hieroglypics. Some very guage are reproduced here. They are do not die out easily. They simply take taken from a book entitled "A Parish members of the tramp race.

No. 1 in this selection means "This



AS STATIONS FOR AERIAL TELEGRAPHY WITHOUT WIRES WOULD APPEAR.

through space in straight lines, but, means "Good for food;" No. 4 means like light, they are capable of reflection and refraction, and scientists have based their dreams of wireless telegraphy. With the fact that the Hertzian waves exhibit all the phenomena of means "Dangerous, sure of being handlight before them, the scientists have ed to police;" No. 9 means "Doubtful;" gone to work to construct instruments that will handle these waves as beliographs handle the rays of the sun.

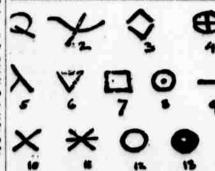
But the great difficulty with Herizian waves is that the waves will follow the curvature of the earth's surface. In this respect they are related to the X rays, which, in fact, seem to be a sort of illuminated electricity. The point to overcome in telegraphing long distances without wires is to obtain sufficient elevation to overlap the curvature of the earth's surface, and to reduce to a minimum the earth's absorption of the electric current. If the terrific impulse of these Hertz-

ian waves is not overestimated, a sort of mountain telegraph might be established from Washington territory to Nicaragua, and, with a few towers, even to the lower part of Chili and Pat-

This may be an exaggeration, but the fact remains that many scientists are so thoroughly convinced that the use of atmosphere and earth currents of electricity is practicable that they are working with might and main to bring about the desired end. In a recent interview Marconi said:

"I have long believed that instantaneous and simultaneous communica-

"Religious, but good on the whole;" No. 5 means "No good;" No. 6 means "Spoilt by too many calling:" No. 7 means "Likely to have you taken up;" No. 8



No. 10 means "Good;" No. 11 means "Very good;" No. 12 means "Has given, and will again; soft, lay it on thick." Nothing can be added to this encomium.

Cultivating the Widow.
"Somebody must be cultivating the

"Anyway, her weeds have disappeared."-Detroit Journal. Occasionally Recailed.

"Your husband died a year ago? You must miss him greatly.' "Not so much. His mother throws a cup at my head occasionally now."tion to all parts of the earth is possible New York Journal.

ELECTRIC POWER CARRIAGES.

No Longer a Novelty in the Great Cities of America. The horseless carriage—the kind operated by electric power-is no longer considered a freak, It is now in pracleal use. A few years from now it is possible that a horse will attract as nuch attention as did the first electric carriage. Even livery stable keepers admit that the horse must go. There is a motor vehicle which, on Sept. 11, 1896, made a five-mile run at the Nar-



ragansett Park races, in Providence, R. ., in eleven minutes and twenty-seven seconds. The average time per mile was two minutes seventeen seconds. and it covered the distance at the rate of a little more than twenty-six miles an hour, establishing a record for motor

The handsoms and surreys in use are fitted with two one and one-half horse power motors, both attached to the front axle, one to each wheel, and driven independently. The coupe is furnished with two two-horse power motors. After fifteen minutes' practice, say the manufacturers, a man who has never seen one before can operate one. They are fitted with pneumatic tires. The cost of the vehicles will not be much more than the price of a horse and an old-style carriage, and the charging of the batteries will be inex-

Three goats were led into the city court room at Yonkers, N. Y., by two policemen. Following them were their owners and three sympathizers who also own goats. Judge Kellogg was surprised and startled by the procession, and the excitement in the court room was increased when one of the

long-haired animals began to pleat. The

efforts of the officers to abate the noise

Police Arrested Goats.

were unavailing, and presently the other goats chimed in. They were finally taken to the police stables. It was then learned that the men and goats were there on the complaint of a Mr. Gabriel, who lives on Park avenue. He was about to start for business on Wednesday morning when he was met at the door by a large "Billy." He opened his silk umbrella and the goat promptly butted a hole through it and landed Mr. Gabriel on his back. Then

two other goats attacked him, and the

cook had to come to the rescue with a

rolling-pin. He then caused the arrest

of the animals and their owners. The

Judge dismissed them all with a warn-Proving Hor Case. Emerson (of Boston)—You shouldn't use slang, Susie. Your favorite old English authors do not counte-

Susle-Oh, yes, they do, mamma Don't you remember what Colley Cibber says about the youth that fired the Ephesian dome?—New York Trib-

Getting Acquainted, "May I kiss you?" "No, Mr. Simpson; I don't feel well nough acquainted." (Interesting enough different sports he engages in, includ-"There, now do you feel well enough

acquainted?" "Yes, George."-Harlem Life,

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